



kerberos "authentication message" key

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## Patents

Patents 1 - 3 on kerberos "authentication message" key. (0.19 seconds)

### Asynchronous message system for menu-assisted resource control program

US Pat. 6009175 - Filed Jun 27, 1997 - Unisys Corporation

A secure message transmission system in a **Kerberos** environment which permits a client ... to an earlier request for an **authentication message** code signal, ...

### Non pre-authenticated kerberos logon via asynchronous message mechanism

US Pat. 7024692 - Filed Jan 21, 2000 - Unisys Corporation

The system of claim 4 wherein said **Kerberos** Support Library (34) includes: ... responded to an earlier request for an **authentication message** code signal, ...

### Message control system for managing message response in a kerberos environment

US Pat. 6003136 - Filed Jun 27, 1997 - Unisys Corporation

A secure message transmission system in a **Kerberos** environment which permits a client ... to an earlier request for an **authentication message** code signal, ...

kerberos "authentication message" key

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**Patents** Patents 1 - 33 on ticket kerberos key authentication network secure public server client. (0.02 s)

Yaksha, an improved system and method for securing communications using split private key ...

US Pat. 5535276 - Filed Nov 9, 1994 - Bell Atlantic Network Services, Inc.

When the **client** wishes to obtain a **ticket** to access **server 50**, ... Finally, **Kerberos** was designed to provide **authentication** and **key-exchange**, ...

Electronic information network user authentication and authorization system

US Pat. 5590199 - Filed Oct 12, 1993 - The Mitre Corporation

It is based upon the use of a trusted **authentication server** to provide "tickets" for ... Unlike the **ticket**, the authenticator is built by **client Kerberos**. ...

Rights management system for digital media

US Pat. 6006332 - Filed Oct 21, 1997 - Case Western Reserve University

The RM system A provides a password for the **Kerberos server** and **Kerberos 60** ... As an alternative external **authentication**, **public key** certificates—such as ...

Method for providing secure remote command execution over an insecure computer network

US Pat. 5923756 - Filed Feb 12, 1997 - GTE Laboratories Incorporated

This certificate contains the **network server's public key** and a list of one ... The **Kerberos Initialization Client 780** sends a request for a **ticket-granting** ...

Authentication method to enable servers using public key authentication to obtain user-delegated ...

US Pat. 6643774 - Filed Apr 8, 1999 - International Business Machines Corporation

This means the **Kerberos server** would need to securely maintain the private ... where a **client** communicates directly with a **Kerberos server** using **public key** ...

System for providing secure remote command execution network

US Pat. 6198824 - Filed May 11, 1999 - Verizon Laboratories Inc.

This certificate contains the **network server's public key** and a list of one ... The **Kerberos Initialization Client 780** sends a request for a **ticket-granting** ...

Computer system for securing communications using split private key asymmetric cryptography ...

US Pat. 5737419 - Filed Jun 7, 1996 - Bell Atlantic Network Services, Inc.

Die- However, in some cases the **client** may request mutual well-known that many systems (eg UNIX or **Kerberos**), **authentication**, in which case the **server 50** ...

Mechanism for secure tendering in an open electronic network

US Pat. 6363365 - Filed Dec 7, 1998 - International Business Machines Corp.

Third party **authentication** is one way to **secure** communications between a **client** and **server** over an open **network**. One well known trusted third party ...

Method and apparatus providing secure initialization of network devices using a cryptographic ...

US Pat. 7181620 - Filed Nov 9, 2001 - Cisco Technology, Inc.

Therefore, the **client** and **server** principals can authenticate by proving knowledge of the **key** contained within the **ticket**. A **Kerberos** "administrative realm" ...

### Specifying security protocols and policy constraints in distributed systems

US Pat. 6216231 - Filed Apr 25, 1997 - AT & T Corp.

Certificates using **public key** cryptography enable **authentication** information ... integrity and confidentiality for data sent between the **server** and **client**...

### Method for providing simultaneous parallel **secure** command execution on multiple remote hosts

US Pat. 7062781 - Filed Dec 21, 2000 - Verizon Laboratories Inc.

25 This certificate contains the **network server's public key** and a list of ...

The **Kerberos** Initialization **Client** 780 sends a request for a **ticket-granting** ...

### **Secure** data storage and retrieval with **key** management and user **authentication**

US Pat. 6947556 - Filed Aug 21, 2000 - International Business Machines Corporation

3J The **authentication server** may also inform the **key server** and the file **server**

... under **Kerberos**, the user computer forwards the **ticket** to the file **server** ...

### **Key** management protocol and **authentication** system for **secure** internet protocol rights management ...

US Pat. 7243366 - Filed Mar 4, 2002 - General Instrument Corporation

Another disadvantage of **Kerberos** is that it does not specify the details of performing **key** management between a **client** and a **server** once a **ticket** is ...

### Specifying security protocols and policy constraints in distributed systems

US Pat. 6256741 - Filed Oct 13, 2000 - AT&T Corp.

Certificates using **public key** cryptography enable **authentication** information ... integrity and confidentiality for data sent between the **server** and **client**...

### Coordinating user target logons in a single sign-on (SSO) environment

US Pat. 6178511 - Filed Apr 30, 1998 - International Business Machines Corporation

PKM is preferably implemented as a **client/server** application in a ... of a single sign-on system is the 55 **network authentication** between a single sign-on ...

### System and method for providing **key** management protocol with **client** verification of authorization

US Pat. 7231663 - Filed Feb 4, 2002 - General Instrument Corporation

The TGS **server** 110 provides an application **server** service **ticket** (ST ...

the **authentication** service exchange between the **client** 102 and the AS **server** 108 ...

### System and apparatus for storage and transfer of **secure** data on web

US Pat. 6985953 - Filed Nov 30, 1999 - George Mason University

Since SSL provides **server-to-client authentication** (optionally mutual ... the **Kerberos ticket**), or the Sign Cookie (carrying user's digital signature), ...

### Cross-domain access control

US Pat. 7062654 - Filed Nov 9, 2001 - SRI International

Such a technique typically employs a **public key** to encrypt a communication or verify ... **Kerberos** is a **network authentication** protocol developed by MIT (see ...

Encryption of streaming control protocols and their headers

US Pat. 7237108 - Filed Jun 25, 2002 - General Instrument Corporation

Request **Ticket Granting Ticket** from the **Authentication Server** Reply from ...  
the service **ticket Server** requests this **client** to initiate **key management Key** ...

Method and system for enabling content security in a distributed system

US Pat. 7243226 - Filed Dec 11, 2002 - Valve Corporation

In other embodiments of the invention, other private **key/public key** ... may be  
used when encrypting data and/or authenticating a **server, client**, or user. ...

End-to end protection of media stream encryption keys for voice-over-IP systems

US Pat. 6792534 - Filed May 6, 2002 - General Instrument Corporation

When the **server** named in the **ticket** receives this message from the **client**,...  
Also, **Kerberos** provides a **key management** solution that avoids the overhead ...

Synchronous message control system in a **Kerberos** domain

US Pat. 6055639 - Filed Oct 10, 1997 - Unisys Corporation

In systems designated as **Public Key Electronic Crypto- Systems**, ... article  
entitled "**The Kerberos Network Authentication Service**" which was published Sep. ...

Method and apparatus for purchasing and delivering digital goods over a **network** ...

US Pat. 5809144 - Filed Aug 24, 1995 - Carnegie Mellon University

Instead of using **public key** cryptography for transaction's status. ... **Kerberos**  
**Ticket Granting Server** believes the **client's** iden- The merchant requests the ...

Electronic authority **server**

US Pat. 6073242 - Filed Mar 19, 1998 - Agorics, Inc.

10 **Public-key** or certificate-based signature verification; ... the authority  
**server** can be coupled to other similar servers via **secure network** connections. ...

Teamware **server** working over HTTP/HTTPS connections

US Pat. 6813641 - Filed Jul 5, 2001 - Sun Microsystems, Inc.

A "credential" is a security- related attribute such as password, **Kerberos ticket**,  
**public key** certificate, and cryptographic **key**. ...

Mobile host using a virtual single account **client** and **server** system for **network** access and ...

US Pat. 7069433 - Filed Oct 29, 2001 - AT&T Corp.

Using the **ticket** that contains a session **key** encrypted using two shared ...  
to an access **network** using a **RADIUS server** that relays the **authentication** ...

Establishing authenticated **network** connections

US Pat. 7069438 - Filed Aug 19, 2002 - Sowl Associates, Inc.

**Client** computer 100 and **server authentication** method used to authenticate **client**  
... an **authentication** token, a digital certificate or a 1 **Kerberos ticket**. ...

Mobile host using a virtual single account **client** and **server** system for **network** access and ...

US Pat. 6971005 - Filed Oct 23, 2001 - AT&T Corp.

Using the **ticket** that contains a session **key** encrypted using two shared ...  
to an access **network** using a **RADIUS server** that relays the **authentication** ...

Method and system for providing **client** privacy when requesting content from a **public server**

US Pat. 6993652 - Filed Oct 5, 2001 - General Instrument Corporation

**Kerberos** is an example of a known **network authentication** protocol that is ...  
to provide **authentication** for **client/server** applications by using **secret-key** ...

#### Web simulator

US Pat. 7143025 - Filed Dec 13, 2002 - Sun Microsystems, Inc.

Passport is an **authentication server** developed by Microsoft that provides a ...

**Kerberos Server**). Liberty is a federated **network** identity solution for the ...

#### Authentication and authorization in a multi-tier relational database management system

US Pat. 6286104 - Filed Aug 4, 1999 - Oracle Corporation

**Client/** Application method 214 allows the application **server** to connect to the data

... In one embodiment of the invention, **public key** encryption (PKE) ...

#### Personal key archive

US Pat. 5495533 - Filed Apr 29, 1994 - International Business Machines Corporation

JG Steiner, "**Kerberos**: An **Authentication** Service For Open **Network** Systems", ...

The computing system has an **authentication server**; a **key client**; a **key** ...

#### Expedited message control for synchronous response in a Kerberos domain

US Pat. 6175920 - Filed Feb 20, 1998 - Unisys Corporation

In systems designated as **Public Key** Electronic Crypto- Systems, ... article

entitled "**The Kerberos Network Authentication Service**" which was published Sep. ...

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key network authentication Kerberos

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## Patents

Patents 1 - 50 on key network authentication Kerberos. (0.58 seconds)

### Personal key archive

US Pat. 5495533 - Filed Apr 29, 1994 - International Business Machines Corporation

A **network authentication** mechanism, such as **Kerberos** 10 (reference 8), ...

**Authentication** and **Key** Distribution Service, Proceedings of ESORICS 92, Toulouse, ...

### Intermediate network authentication

US Pat. 5511122 - Filed Jun 3, 1994 - The United States of America as represented by the Secretary of the Navy

INTERMEDIATE **NETWORK AUTHENTICATION** BACKGROUND OF THE INVENTION The ... 15 tion

to this rule with its development of the **Kerberos authentication** system. ...

### Electronic information network user authentication and authorization system

US Pat. 5590199 - Filed Oct 12, 1993 - The Mitre Corporation

3., the system, according to the invention, for **authentication** of a user ...

Client **Kerberos** derives a **key** from the password and sends it to the smart card. ...

### Yaksha, an improved system and method for securing communications using split private key ...

US Pat. 5535276 - Filed Nov 9, 1994 - Bell Atlantic Network Services, Inc.

Those interested are referred to Kohl, JT and BC Neuman, 'The **Kerberos Network**

**Authentication Service**', INTERNET RFC 1510, September 1993, for more details. ...

### Method and apparatus for purchasing and delivering digital goods over a network ...

US Pat. 5809144 - Filed Aug 24, 1995 - Carnegie Mellon University

may also use **Kerberos** tickets. The transaction involves several phases, ...

the customer or merchant may be unaware of the message **authentication** and ...

### Method for providing secure remote command execution over an insecure computer network

US Pat. 5923756 - Filed Feb 12, 1997 - GTE Laboratories Incorporated

One example of a secret-key based **network authentication** system is the trusted

third-party **authentication** service called **Kerberos**. ...

### System for increasing the difficulty of password guessing attacks in a distributed ...

US Pat. 5491752 - Filed Sep 2, 1994 - Digital Equipment Corporation, Patent Law Group

**KERBEROS: USING A SHARED SECRET KEY FOR TRANSMISSION OF AN AUTHENTICATION "TICKET"**

The well-known **Kerberos network** environment employs another variation on ...

### Computer-based communication system and method using metadata defining a control structure

US Pat. 5862325 - Filed Sep 27, 1996 - Intermind Corporation

These include **Kerberos** 5, developed at 108 An example is **authentication** using

... The private **key** is stored as an element 143 of the **authentication** service ...

### Networked workstation intrusion detection system

US Pat. 5919257 - Filed Aug 8, 1997 - Novell, Inc.

Alternatively, it is contemplated that well known password based user **authentication**

systems such as **Kerberos** V4 ROM along with the executable code required ...

Computer system for securing communications using split private **key** asymmetric cryptography ...

US Pat. 5737419 - Filed Jun 7, 1996 - Bell Atlantic Network Services, Inc.

^uest to **authentication** . . . . . service), consists of: private **key** stored on a  
... "The **Kerberos** 45 **Network Authentication Service**", INTERNET RFC 1510, ...

Digital active advertising

US Pat. 5724424 - Filed Nov 29, 1995 - Open Market, Inc.

"Concept for a Smart Card **Kerberos**", 15th National Computer Security ... Krajewski,  
M. et al, "Applicability of Smart Cards to **Network User Authentication**", ...

Method and system for authenticating users to multiple computer servers via a single sign-on ...

US Pat. 5684950 - Filed Sep 23, 1996 - Lockheed Martin Corporation

mcmahon "Sesame V2 Public **Key** and Authorization Extensions to **Kerberos**", ...  
computing **network** can be granted via a single **network authentication** request 15 ...

System and method for policy-based inter-realm **authentication** within a distributed processing system

US Pat. 5544322 - Filed May 9, 1994 - International Business Machines Corporation

The knowledge of the **key** is required to use the certificate correctly. ...  
The **Kerberos network authentication** protocol, as described within The **Kerberos** ...

**Key** management for **network** communication

US Pat. 5825891 - Filed Oct 29, 1997 - Raptor Systems, Inc.

**Kerberos Network Authentication** System created under defines one method of providing  
... For a more detailed description of the **Kerberos Key** 60 Although the ...

System for providing secure remote command execution **network**

US Pat. 6198824 - Filed May 11, 1999 - Verizon Laboratories Inc.

Networks of networks are One example of a secret-key based **network** ... Since some  
part of the **network** may use The **Kerberos authentication** scheme also is ...

Multi-party secure session/conference

US Pat. 5369705 - Filed Jun 3, 1992 - International Business Machines Corporation

Thus, these existing mecha- Accordingly, this invention provides an adaptive  
nisms will not work connectively in a dynamic **network authentication** mechanism ...

Cryptographic protocol for secure communications

US Pat. 5241599 - Filed Oct 2, 1991 - AT&T Bell Laboratories

The pro- The **Kerberos authentication** system of mit's appropriate at this time.  
... Open **Network System**," Proc. Winter guished by a cryptographic **key** or **key**. ...

Method and apparatus for enhancing software security and distributing software ...

US Pat. 5724425 - Filed Jun 10, 1994 - Sun Microsystems, Inc.

Note that use of RSA [26] in the obvious manner to achieve **key** exchange similarly  
does not guarantee ... Limitations of the **Kerberos authentication** system. ...

Method and apparatus for authenticating a client to a server in computer systems which support ...

US Pat. 5586260 - Filed Feb 12, 1993 - Digital Equipment Corporation  
"Kerberos: An Authentication service of Open Network Systems," Mar. ...  
saves security credentials for the client, returning an access key to the client. ...

Flexible interface to authentication services in a distributed data processing environment

US Pat. 5481720 - Filed Sep 14, 1994 - International Business Machines Corporation  
For example, if Kerberos based authentication is being performed, ... This may  
be running on a remote node and hence require network communication. ...

System and method for single sign-on to a plurality of network elements

US Pat. 5944824 - Filed Apr 30, 1997 - MCI Communications Corporation  
A secured network architecture for the single sign-on of a user to a plurality of  
... environment key distribution service based on Kerberos authentication ...

Computer-based communication system and method using metadata defining a control-structure

US Pat. 6088717 - Filed Aug 31, 1998 - OneName Corporation  
These include Kerberos 5, developed at MIT; SPX, developed by Digital ...  
The private key is stored as an element 143 of the authentication service object ...

Method and system for changing an authorization password or key in a distributed communication ...

US Pat. 5778065 - Filed Feb 8, 1996 - International Business Machines Corporation  
It should be noted that authentication is against Trojan Horse and ... The given  
key selection rules, or when other transmitted Kerberos system includes a ...

Auditing login activity in a distributed computing environment

US Pat. 5864665 - Filed Aug 20, 1996 - International Business Machines Corporation  
A TGT is a data structure that contains authentication and Kerberos ticket ...  
the claimed principal's key to decrypt the times- services in the network... .

Rights management system for digital media

US Pat. 6006332 - Filed Oct 21, 1997 - Case Western Reserve University  
One type of system is known as Kerberos, which provides a user ID password ...  
As an alternative external authentication, public key certificates—such as ...

Electronic proof of receipt

US Pat. 5509071 - Filed Apr 1, 1994 - Microelectronics And Computer Technology Corporation  
It should be noted that such a key exchange may 59 be as simple as two ...  
1013; Steiner et al., "Kerberos: An Authentication Service for Open Network ...

Transferring encrypted packets over a public network

US Pat. 5898784 - Filed Nov 3, 1997 - Raptor Systems, Inc.  
The tunnel indicates the The Kerberos Key Distribution Center components of ...  
Kerberos Network Authentication System created under Multiple tunnels 140, ...

Single sign-on (SSO) mechanism personal key manager

US Pat. 6243816 - Filed Apr 30, 1998 - International Business Machines Corporation  
40 One design consideration of a single sign-on system is the 59 network  
authentication between a single sign-on user and the single sign-on centralized ...

Method and system for key distribution and authentication in a data communication network



US Pat. 5539824 - Filed Dec 2, 1994 - International Business Machines Corporation  
20 One such **network** to be more particularly considered in this ... BC Newman, JI  
Schiller and JH Saltzer, as the "**Kerberos 50 Authentication** and ...

Method for delegating access rights through executable access control program without delegating ...

US Pat. 5649099 - Filed Jun 4, 1993 - Xerox Corporation  
In step 414 the **authentication authentication** tickets, one for the initiator,  
which contains tication server AS returns the session **key** Kc with a ticket ...

Secure intranet access

US Pat. 6081900 - Filed Mar 16, 1999 - Novell, Inc.  
In both cases, the **authentication** information is quite vulnerable to theft and  
... with public **key**/private **key** encryption software such as PGP software. ...

Method and apparatus for distributing and updating group controllers over a wide area network ...

US Pat. 6684331 - Filed Dec 22, 1999 - Cisco Technology, Inc.  
The **network** 50 101 may be a packet switched **network**, which supports the Internet  
Protocol (IP). ... **Kerberos** is a known **key** based **authentication** service. ...

Specifying security protocols and policy constraints in distributed systems

US Pat. 6216231 - Filed Apr 25, 1997 - AT & T Corp.  
As noted above, **Kerberos** is a distributed **authentication** service that allows ...  
sending data across the **network** that might allow an attacker or verifier to ...

Apparatus and method for remotely executing commands using distributed computing environment ...

US Pat. 6148402 - Filed Apr 1, 1998 - Hewlett-Packard Company  
... across the **network** to the **Kerberos authentication** security server 13. ...  
This session **key** is used to encrypt the ticket from the sealed authenticator. ...

Computer network operating with multilevel hierarchical security with selectable common trust ...

US Pat. 5204961 - Filed Jun 25, 1990 - Digital Equipment Corporation  
I 2 COMPUTER **NETWORK** OPERATING WITH rity are supported by transmitting ...  
verify that both the local computer system and the RSA Public **Key authentication**, ...

System and method for secure initial program load for diskless workstations

US Pat. 5349643 - Filed May 10, 1993 - International Business Machines Corporation  
3, when the **authentication** server responds with the K2 ticket, 71, ... could be  
inserted which would cause the **Kerberos** server to send the K2 **key** to the ...

Challenge-response authentication and key exchange for a connectionless security protocol

US Pat. 6377691 - Filed Dec 9, 1996 - Microsoft Corporation  
Another disadvantage of the **Kerberos authentication** pro- 1° tocol is the manner in  
... with little modifications to existing **network** operating systems. ...

Centralized authentication, authorization and accounting server with support for multiple ...

US Pat. 6219790 - Filed Jun 19, 1998 - Lucent Technologies Inc.  
To ensure that requests are not responded to by unauthorized hackers on the  
**network** 102, the AAA server 118 typically sends an **authentication key**, ...

Computer-based communication system and method using metadata defining a control-structure

US Pat. 6345288 - Filed May 15, 2000 - OneName Corporation

These include **Kerberos 5**, developed at MIT; SPX, developed by Digital ...

The private **key** is stored as an element 143 of the **authentication** service object ...

Intelligent electronic appliance system and method

US Pat. 6850252 - Filed Oct 5, 2000

... (Open **network** payment system for providing for **authentication** of payment orders

... (Synchronous message control system in a **Kerberos** domain); US Pat. ...

Method for authenticating a user working in a distributed environment in the client/server mode ...

US Pat. 5841871 - Filed Nov 18, 1996 - Bull S.A.

The **Kerberos authentication** technique is based on the use of a password known as

... (RFC 1510 "The **Kerberos Network Authentication** Service [Version 5]", ...

One-time logon means and methods for distributed computing systems

US Pat. 5241594 - Filed Jun 2, 1992 - Hughes Aircraft Company

**key** distribution mechanism. However, this system re- ONE-TIME LOGON MEANS AND

METHODS ... Unique features of the **authentication** at the application level, ...

**Authentication** method for networks

US Pat. 5706427 - Filed Jun 27, 1996 - Cadix Inc.

The verification server maintains a database of valid **authentication** data, ...

11 Claims, 6 Drawing Sheets APPLICATION SERVER REQUEST APPLICATION **KEY** . ...

Expedited message control for synchronous response in a **Kerberos** domain

US Pat. 6175920 - Filed Feb 20, 1998 - Unisys Corporation

It can only be decrypted using that user's "public **key**". A **Kerberos** Security

System is being used as a developing standard for authenticating **network** users ...

Mechanism for secure tendering in an open electronic **network**

US Pat. 6363365 - Filed Dec 7, 1998 - International Business Machines Corp.

(See for example JG Steiner, BC Neuman, and JI Schiller, "**Kerberos: 65 Authentication**

service for open **network** systems," USENIX Conference Proceedings, ...

Mechanism and apparatus for using messages to look up documents stored in spaces in a ...

US Pat. 6643650 - Filed Sep 12, 2000 - Sun Microsystems, Inc.

**Kerberos** lets a user request an encrypted "ticket" from an **authentication** process

that 10 ... The user's password does not have to pass through the **network**. ...

Connection authorizer for controlling access to system resources

US Pat. 5506961 - Filed Oct 17, 1994 - International Business Machines Corporation

Further, the **Kerberos authentication** model is itself flawed in many respects.

... each **Kerberos** server must allocate a unique encryption **key** to each device. ...

Method for sharing secret information and performing certification in a communication system ...

US Pat. 5708714 - Filed Jul 26, 1995 - Canon Kabushiki Kaisha

... countermeasure for reducing the danger from **authentication** server can not be

relied on because of the cation method for a **network** called **kerberos** (see ...

Server entity that provides secure access to its resources through token validation

US Pat. 5542046 - Filed Jun 2, 1995 - International Business Machines Corporation

Further, the **Kerberos** authentication model is itself flawed in many respects.

... each **Kerberos** server must allocate a unique encryption **key** to each device. ...

**Authentication** method to enable servers using public **key authentication** to obtain user-delegated ...

US Pat. 6643774 - Filed Apr 8, 1999 - International Business Machines Corporation

An example of a private **key** security system is the **Kerberos** system developed by the

... Private **key** systems have a number of drawbacks in 50 an open **network** ...

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## Patents

Patents 1 - 50 on key network authentication message Kerberos. (0.46 seconds)

### Electronic information network user authentication and authorization system

US Pat. 5590199 - Filed Oct 12, 1993 - The Mitre Corporation

Step Ghent **Kerberos** transfers the portion of the **message** 10: encrypted using the TGS session **key** to the smart card. Step The smart card decrypts the **message** ...

### Yaksha, an improved system and method for securing communications using split private key ...

US Pat. 5535276 - Filed Nov 9, 1994 - Bell Atlantic Network Services, Inc.

The client using computer 10 45 now constructs **Message** 5 and sends it to the server 50 ... Finally, **Kerberos** was designed to provide authentication and key- ...

### Method and apparatus for purchasing and delivering digital goods over a network ...

US Pat. 5809144 - Filed Aug 24, 1995 - Carnegie Mellon University

may also use **Kerberos** tickets. The transaction involves several phases, ... the customer or merchant may be unaware of the **message authentication** and ...

### Personal key archive

US Pat. 5495533 - Filed Apr 29, 1994 - International Business Machines Corporation

User authentication should not be confused with **message authentication**, ... A **network authentication** mechanism, such as **Kerberos** 10 (reference 8), ...

### Computer-based communication system and method using metadata defining a control structure

US Pat. 5862325 - Filed Sep 27, 1996 - Intermind Corporation

Many cryptographic protocols have been devised to provide authentication of user identity and **message** integrity over data networks. These include **Kerberos** 5 ...

### Digital active advertising

US Pat. 5724424 - Filed Nov 29, 1995 - Open Market, Inc.

"Concept for a Smart Card **Kerberos**", 15th National Computer Security ... Krajewski, M. et al, "Applicability of Smart Cards to **Network User Authentication**", ...

### Computer system for securing communications using split private key asymmetric cryptography ...

US Pat. 5737419 - Filed Jun 7, 1996 - Bell Atlantic Network Services, Inc.

Only a user who knows Kc will be able to close to a decade of effort, the **Kerberos authentication** decrypt this **message** to obtain Kc.tgs. The **key** Kc,tgs is ...

### Intermediate network authentication

US Pat. 5511122 - Filed Jun 3, 1994 - The United States of America as represented by the Secretary of the Navy

Bellovin, Steven M., "Limitations of the **Kerberos Authentication System**", ... steps of: obtaining a **network** address and a public **key** of a receiving host; ...

### Method for providing secure remote command execution over an insecure computer network

US Pat. 5923756 - Filed Feb 12, 1997 - GTE Laboratories Incorporated

After receiving the encrypted session **key**, **net work** server 300 ... One example of a publicly available **authentication** protocol using timestamps is **Kerberos** ...

Flexible interface to **authentication** services in a distributed data processing environment

US Pat. 5481720 - Filed Sep 14, 1994 - International Business Machines Corporation  
These **message** queue facilities are described in the "AIX Operating System Technical ... For example, if **Kerberos** based **authentication** is being performed, ...

Cryptographic protocol for secure communications

US Pat. 5241599 - Filed Oct 2, 1991 - AT&T Bell Laboratories  
The pro- The **Kerberos authentication** system of mit's appropriate at this time.  
... Open **Network System**," Proc. Winter guished by a cryptographic **key** or **key**. ...

Method and apparatus for enhancing software security and distributing software ...

US Pat. 5724425 - Filed Jun 10, 1994 - Sun Microsystems, Inc.  
Valid signatures should result from the transformation 20 of a **message** from a **message** space that is a ... Limitations of the **Kerberos authentication** system. ...

System and method for policy-based inter-realm **authentication** within a distributed processing system

US Pat. 5544322 - Filed May 9, 1994 - International Business Machines Corporation  
... **Kerberos Network Authentication Service** (please refer to the **Kerberos Network Authentication Service** (V5) reference noted above), which uses secret-key ...

Method and system for changing an authorization password or **key** in a distributed communication ...

US Pat. 5778065 - Filed Feb 8, 1996 - International Business Machines Corporation  
It should be noted that **authentication** is against Trojan Horse and ... This second **message** contains at least an accept/ However, the **Kerberos** ...

Computer-based communication system and method using metadata defining a control-structure

US Pat. 6088717 - Filed Aug 31, 1998 - OneName Corporation  
These include **Kerberos 5**, developed at MIT; **SPX**, developed by Digital ...  
The private **key** is stored as an element 143 of the **authentication** service object ...

System for increasing the difficulty of password guessing attacks in a distributed ...

US Pat. 5491752 - Filed Sep 2, 1994 - Digital Equipment Corporation, Patent Law Group  
3 is a data flow diagram of a public **key authentication** transaction; FIG. 4 is a data flow diagram of an authenticated **Kerberos network** environment; FIG. ...

Networked workstation intrusion detection system

US Pat. 5919257 - Filed Aug 8, 1997 - Novell, Inc.  
Preferably, only the identification and **authentication** modules are signed, ...  
a **message** to the workstation that the user properly logged onto the **network** ...

Computer **network** operating with multilevel hierarchical security with selectable common trust ...

US Pat. 5204961 - Filed Jun 25, 1990 - Digital Equipment Corporation  
Thus, each **message** has an associated label denot- ity of the transmitted ...  
that both the local computer system and the RSA Public **Key authentication**, ...

### Electronic proof of receipt

US Pat. 5509071 - Filed Apr 1, 1994 - Microelectronics And Computer Technology Corporation

There are myriad **authentication** protocols known in the art and based on either conventional private **key** systems, such as mit's **Kerberos**, or public **key** ...

### Apparatus and method for remotely executing commands using distributed computing environment ...

US Pat. 6148402 - Filed Apr 1, 1998 - Hewlett-Packard Company

... the **message 24** is sent across the **network** to the **Kerberos authentication** ...  
from the **message** in the **Kerberos** database and obtains the encryption **key** ...

### System for providing secure remote command execution network

US Pat. 6198824 - Filed May 11, 1999 - Verizon Laboratories Inc.

The **authentication** protocol preferably also produces a session **key** that is known only to 5 client 200 and **network** server 300 and which can be used to ...

### Method and apparatus for distributing and updating group controllers over a wide area network ...

US Pat. 6684331 - Filed Dec 22, 1999 - Cisco Technology, Inc.

The group members then decipher the encrypted **message** to determine 45 each others' public keys. ... **Kerberos** is a known **key** based **authentication** service. ...

### Mechanism and apparatus for using messages to look up documents stored in spaces in a ...

US Pat. 6643650 - Filed Sep 12, 2000 - Sun Microsystems, Inc.

**Kerberos** lets a user request an encrypted "ticket" from an **authentication** ...  
corresponding public **key** in the encrypted **message** to substantially ensure that ...

### Computer-based communication system and method using metadata defining a control-structure

US Pat. 6345288 - Filed May 15, 2000 - OneName Corporation

These include **Kerberos 5**, developed at MIT; **SPX**, developed by Digital ...

The private **key** is stored as an element 143 of the **authentication** service object ...

### Expedited message control for synchronous response in a Kerberos domain

US Pat. 6175920 - Filed Feb 20, 1998 - Unisys Corporation

An example of this would be the **network** where a **message** holding box has a single  
... **Kerberos authentication** is based on "passwords" and does not involve ...

### Intelligent electronic appliance system and method

US Pat. 6850252 - Filed Oct 5, 2000

... (Open **network** payment system for providing for **authentication** of payment orders  
... (Synchronous **message** control system in a **Kerberos** domain); US Pat. ...

### Single sign-on (SSO) mechanism personal key manager

US Pat. 6243816 - Filed Apr 30, 1998 - International Business Machines Corporation

40 One design consideration of a single sign-on system is the 59 **network**  
**authentication** between a single sign-on user and the single sign-on centralized ...

### Multi-party secure session/conference

US Pat. 5369705 - Filed Jun 3, 1992 - International Business Machines Corporation

Thus, these existing mecha- Accordingly, this invention provides an adaptive  
nisms will not work connectively in a dynamic **network authentication** mechanism ...

Challenge-response **authentication** and **key** exchange for a connectionless security protocol

US Pat. 6377691 - Filed Dec 9, 1996 - Microsoft Corporation

Another disadvantage of the **Kerberos authentication** protocol is the manner ... the session **key**, the client CR component encrypts a **message** containing a ...

**Message control system for managing message response in a kerberos environment**

US Pat. 6003136 - Filed Jun 27, 1997 - Unisys Corporation

An example of this would be the **network** where a **message** holding box has a single ... **Kerberos authentication** is based on "passwords" and does not involve ...

**Open network payment system for providing for authentication of payment orders based on a ...**

US Pat. 6049785 - Filed Mar 2, 1998 - Open Market, Inc.

Krajewski, M.; "Smart Card Augmentation of **Kerberos**"; Privacy and Security Research Group Workshop on **Network** and Distributed System Security; Feb., 1993. ...

**System and method for negotiating security services and algorithms for communication across a ...**

US Pat. 5784566 - Filed Jan 11, 1996 - Oracle Corporation

Other networks, and users may sometimes be able to specify a **Kerberos** server; ... most **network** systems do not in physical-device-assisted **authentication**, ...

**Authentication method for networks**

US Pat. 5706427 - Filed Jun 27, 1996 - Cadix Inc.

11 Claims, 6 Drawing Sheets APPLICATION SERVER REQUEST APPLICATION **KEY** ...

REQUEST (**MESSAGE ID**, ENCRYPTION **KEY** ENCRYPTION **KEY**) (**KEY DATA**, **MESSAGE ID**, ...

**Method and apparatus for extending existing database management system for new data types ...**

US Pat. 5794250 - Filed Apr 18, 1997 - NCR Corporation

The **authentication** system employed is based on the **KERBEROS** system. ... of the TGT. the **network** address of the client 220, and a random session **key** ...

**Synchronous message control system in a Kerberos domain**

US Pat. 6055639 - Filed Oct 10, 1997 - Unisys Corporation

An example of this would be the **network** where a **message** holding box has a single ... **Kerberos authentication** is based on "passwords" and does not involve ...

**Non pre-authenticated kerberos logon via asynchronous message mechanism**

US Pat. 7024692 - Filed Jan 21, 2000 - Unisys Corporation

An example of this would be the **network** where a **message** holding box has a ... **Kerberos authentication** is based on "passwords" and does not involve ...

**Method for authenticating a user working in a distributed environment in the client/server mode ...**

US Pat. 5841871 - Filed Nov 18, 1996 - Bull S.A.

The **Kerberos authentication** technique is based on the use of a password ... password OTP received) while the decryption **key** of the response **message** from ...

**Controlling passage of packets or messages via a virtual connection or flow ...**

US Pat. 5828846 - Filed Nov 22, 1995 - Raptor Systems, Inc.

**Kerberos Network Authentication Service (V5)**, Digital Equipment Corporation, ...

In connection with processing a packet or **message** that triggers a step in ...

Method and apparatus for parallel execution of user-defined functions in an object-relational ...

US Pat. 5754841 - Filed Oct 20, 1995 - NCR Corporation

The **authentication** system employed is based on the **KERBEROS** system. ... the **network** address of the client 220, and a random session **key**. ...

**Authentication** method to enable servers using public **key authentication** to obtain user-delegated ...

US Pat. 6643774 - Filed Apr 8, 1999 - International Business Machines Corporation

To use a **key** pair for **authentication**, the **message** originator digitally signs ...

The **Kerberos** system alone, however, is not appropriate for a public **network** ...

Method and apparatus for extending a database management system to operate with diverse object ...

US Pat. 5864843 - Filed Oct 20, 1995 - NCR Corporation

The **authentication** system 40 employed is based on the **KERBEROS** system. ...

of the federated coordinator 206, the lifetime of the TGT, the **network** address ...

Method and apparatus for extending a relational database management system using a federated ...

US Pat. 5873083 - Filed Oct 3, 1997 - NCR Corporation

The **authentication** system 40 employed is based on the **KERBEROS** system. ...

the **network** address of the client 220, and a random session **key**... .

Connection authorizer for controlling access to system resources

US Pat. 5506961 - Filed Oct 17, 1994 - International Business Machines Corporation

Further, the **Kerberos authentication** model is itself flawed in many respects.

... it must understand that it needs to use its **key** to decrypt the **message** ...

Asynchronous **message** system for menu-assisted resource control program

US Pat. 6009175 - Filed Jun 27, 1997 - Unisys Corporation

An example of this would be the **network** where a **message** holding box has a single

... **Kerberos** was designed to provide **authentication** and **key**-exchange, ...

Server entity that provides secure access to its resources through token validation

US Pat. 5542046 - Filed Jun 2, 1995 - International Business Machines Corporation

Further, the **Kerberos authentication** model is itself flawed in many respects.

... it must understand that it needs to use its **key** to decrypt the **message** ....

System and method for **authentication** in a mobile communications system

US Pat. 7003282 - Filed Jun 24, 1999 - Nokia Corporation

If it does, it will generate **Kerberos** is a system intended for **authentication** of

net- a random connection-specific **key** Kc tgs, which will be used work users ...

Trusted construction of **message** endpoints in a distributed computing environment

US Pat. 6792466 - Filed Sep 12, 2000 - Sun Microsystems, Inc.

In one embodiment, the **authentication** ere- with its private **key**... . is 45 a

service in a computer **network**. **K erberos** lets a user request transport over ...

Method and apparatus for managing shared data using a data surrogate and obtaining cost ...

US Pat. 5689698 - Filed Oct 20, 1995 - NCR Corporation



The **authentication** system employed is based on the **KERBEROS** system. ... the **network** address of the client 220, and a random session **key**. ...;

Centralized **authentication**, authorization and accounting server with support for multiple ...

US Pat. 6219790 - Filed Jun 19, 1998 - Lucent Technologies Inc.

To ensure that requests are not responded to by unauthorized hackers on the **network** 102, the AAA server 118 typically sends an **authentication key**, ...

Securing E-mail communications and encrypted file storage using yaksha split private **key** ...

US Pat. 5748735 - Filed Jun 7, 1996 - Bell Atlantic Network Services, Inc.

1994 for Y. Yacobi and R. Ganesan **Network Authentication Service**", INTERNET RFC

... **Kerberos Network Authentication Service**". INTERNET is assumed that **key** ...

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